

Work Order ID 51413

August 21, 2009 11:17:50 AM

Page 1

Item ID: D412-742-013

Accept

Revision ID: D

Item Name: Float Skidtube Installation

Start Date: 8/21/09 Start Qty: 1.00

Required Date: 8/26/09 Req'd Qty: 1.00

Reference:

Approvals: Process Plan: *CS*

Date: *09/08/21* Tooling:

Date:

QC:

Date: SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	----------------	--------------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
----------	--------------

N/A	Rev D
-----	-------

100

0.00



DC

Document Control

DOCUMENT CONTROL

Memo

Photocopy profile and create labels per PPP D412-742-013 CHG006

for BG 09/08/24

110

Pick Kit

0.00



Packaging

Packaging

Memo

0.00

120

QC4- 100% Inspect kits for completeness

0.00



QC

Quality Control

Memo

0.00

= 0 09/08/25

(CS) 4

119/8/07 C

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 51413

August 21, 2009 11:17:50 AM

Page 2

Item ID: D412-742-013

Accept

Revision ID: D

Item Name: Float Skidtube Installation

Start Date: 8/21/09 Start Qty: 1.00

Required Date: 8/26/09 Req'd Qty: 1.00

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start

Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	----------------	--------------	--------------	---------------	---------------	------------------	----------------

130

0.00



Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D412-742-013

Location: H

140

0.00



QC

Quality Control

QC21- Final Inspection - Work Order Release

Memo

0.00

Signature

09/08/26 *Signature*

09-8-25

B51346

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

August 21, 2009 11:17:49 AM

Page 1/14

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 8/21/09

Required Date: 8/26/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

S D412-742-043RevH

Manufactured

No

110

Each

0.0000

1.0000

Replacement Float Skidtube

S D2571RevE

Manufactured

No

110

Each

21.0000

1.0000

Saddle, Fwd Out 205

B37376 PC 9/2/05

PC 8/27 0

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

12

11644

1

43564

4

47564

7

Main Warehouse

ST433

9

50416

9

S D2572RevE

Manufactured

No

110

Each

17.0000

1.0000

Saddle, Fwd In 205

50416

PC 8/27 0

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

17

43565

4

50514

13

50514

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

August 21, 2009 11:17:49 AM

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 8/21/09

Required Date: 8/26/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

D2573RevE

Manufactured

No

110

Each

27.0000

1.0000



Saddle, Aft Out 205

8/24/09 ①

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

12

43566

4

44206

1

47566

7

Main Warehouse

ST434

15

50405

15

50705

D2574RevE

Manufactured

No

110

Each

18.0000

1.0000



Saddle, Aft In 205

8/24/09 ①

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST

3

43567

3

Main Warehouse

ST434

15

50717

15

50717

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

August 21, 2009 11:17:49 AM

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation

Comments:


Start Date: 8/21/09


Required Date: 8/26/09


Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

D2876RevB		Manufactured	No			110	Each	200.0000	2.0000			
<div style="display: flex; justify-content: space-between;"> <div>  <p>Saddle Spacer</p> </div> <div> <p><u>Warehouse</u></p> <p><u>Location</u></p> <p>Main Warehouse</p> <p>ST</p> <p>42364</p> </div> <div> <p><u>Loc Qty</u></p> <p>200</p> <p>200</p> </div> <div> <p><u>Loc Code</u></p> <p></p> </div> </div>												

D2877RevB		Manufactured	No			110	Each	141.0000	2.0000			
<div style="display: flex; justify-content: space-between;"> <div>  <p>Saddle Spacer</p> </div> <div> <p><u>Warehouse</u></p> <p><u>Location</u></p> <p>Main Warehouse</p> <p>ST</p> <p>46518</p> <p>47292</p> </div> <div> <p><u>Loc Qty</u></p> <p>141</p> <p>21</p> <p>120</p> </div> <div> <p><u>Loc Code</u></p> <p></p> </div> </div>												

D3403-1RevB		Manufactured	No			110	Each	159.0000	16.0000			
<div style="display: flex; justify-content: space-between;"> <div>  <p>Bushing</p> </div> <div> <p><u>Warehouse</u></p> <p><u>Location</u></p> <p>Main Warehouse</p> <p>ST</p> <p>41709</p> <p>44368</p> <p>46691</p> </div> <div> <p><u>Loc Qty</u></p> <p>159</p> <p>84</p> <p>16</p> <p>59</p> </div> <div> <p><u>Loc Code</u></p> <p></p> </div> </div>												

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

August 21, 2009 11:17:50 AM

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 8/21/09

Required Date: 8/26/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
S D2747RevB Set Screw		Manufactured	No			110	Each	229.0000	4.0000			

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	229	
39224	4	
43855	225	

43855

8/21/09 (1)

S D3533-1RevB Set Screw		Manufactured	No			110	Each	70.0000	2.0000			
----------------------------	--	--------------	----	--	--	-----	------	---------	--------	--	--	--

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	70	
47625	70	

47625

8/21/09 (1)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

August 21, 2009 11:17:50 AM

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation


Comments:

Start Date: 8/21/09

Required Date: 8/26/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN4C6A  Bolt		Purchased	No			110	Each	210.0000	16.0000			

Warehouse Loc Qty Loc Code

Location

OFFSHORE

FG

4

103344

4

Main Warehouse

ST

206

111724

206

AN4C52A



BOLT

Purchased

No

110

Each

229.0000

8.0000

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

229

103914

19

105423

210

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

August 21, 2009 11:17:50 AM

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 8/21/09

Required Date: 8/26/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

AN6C12A

Purchased

No

110

Each

195.0000

8.0000

✓



BOLT

PC 9/18/09

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

195

104289

1

110396

194

D3672-3RevB

Manufactured

No

110

Each

500.0000

32.0000

1110396



Phenolic Washer

PC 9/18/09

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

500

34471

56

47023

17

48258

427

48208

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

August 21, 2009 11:17:50 AM

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation


Comments:

Start Date: 8/21/09

Required Date: 8/26/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
S AN960C416L  WASHER		Purchased	No			110	Each	204.0000	32.0000 ✓		8/21/09	

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
OFFSHORE		
FG	44	
104925	44	
Main Warehouse		
ST	160	
111808	155	
111916	5	

S D3672-9RevB

Manufactured No


Phenolic Washer

110 Each 587.0000 8.0000 ✓

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	587	
35523	587	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

August 21, 2009 11:17:50 AM

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 8/21/09

Required Date: 8/26/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
S AN960C616L WASHER		Purchased	No			110	Each	144.0000	8.0000 ✓			

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST 144

107242 2

110382 92

111424 50

1110382

S D3672-11RevB Phenolic Washer		Manufactured	No			110	Each	215.0000	16.0000 ✓			
-----------------------------------	--	--------------	----	--	--	-----	------	----------	-----------	--	--	--

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST 215

35524 215

35524

Per 9/18/09

Per 9/18/09

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

August 21, 2009 11:17:50 AM

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation


Comments:

Start Date: 8/21/09

Required Date: 8/26/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
MS21043-4  Nut		Purchased	No			110	Each	1,254.000	29.0000 ✓			

8/21/09

<u>Warehouse</u> <u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
OFFSHORE		
FG	40	
104603	40	
Main Warehouse		
ST	1214	
111819	48	
112243	166	
112314	1000	

1112243

D3403-3RevB

Manufactured No



Bushing

110 Each 52.0000 8.0000 ✓

8/21/09 (1)

<u>Warehouse</u> <u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
Main Warehouse		
ST	52	
44369	52	

44369

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

August 21, 2009 11:17:50 AM

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation



Comments:

Start Date: 8/21/09

Required Date: 8/26/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3405-041RevB		Manufactured	No			110	Each	7.0000	1.0000 ✓			
												
Lug Assembly												

Pick 8/24 ①

Warehouse Loc Qty Loc Code
Location

Main Warehouse
ST
47427

7
7

D3405-043RevB		Manufactured	No			110	Each	8.0000	1.0000			
												
Lug Assembly												

47427

Pick 8/24 ①

Warehouse Loc Qty Loc Code
Location

Main Warehouse
ST
46589
46863
47308
47856

8
1
1
4
2

47308

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

August 21, 2009 11:17:50 AM

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 8/21/09

Required Date: 8/26/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

AN4C47A

Purchased

No

110

Each

86.0000

4.0000

✓



Bolt

12/18/09 (1)

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

86

110847

4

111635

32

112431

50

1111635

D3407-041RevE

Manufactured

No

110

Each

18.0000

1.0000

✓



Tow Ring

12/18/09

Warehouse

Loc Qty

Loc Code

Location

OFFSHORE

FG

3

35780

3

Main Warehouse

ST

5

48356

5

48356

Main Warehouse

ST464

10

50106

10

D3417-3RevE

Manufactured

No

110

Each

0.0000

2.0000

✓



Washer

1342176

12/18/09 (1)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Page 12

August 21, 2009 11:17:50 AM

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 8/21/09

Required Date: 8/26/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

D3456-IRevA

Manufactured

No

110

Each

49.0000

1.0000

Washer

Warehouse

Loc Qty

Loc Code

Location

OFFSHORE

FG

7

25701

7

Main Warehouse

ST

42

46752

42

AN3C37A

Purchased

No

110

Each

226.0000

1.0000

BOLT

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

226

111775

26

111976

100

112454

100

August 21, 2009 11:17:50 AM

Shop Packet Print

Page 12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

August 21, 2009 11:17:50 AM

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 8/21/09

Required Date: 8/26/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	--------------------------	---------------	----------------	--------

AN3C40A		Purchased	No			110	Each	106.0000	1.0000			
												
BOLT												

Warehouse	Loc Qty	Loc Code
Location		


Main Warehouse

ST	106	
----	-----	--

106169	8	
--------	---	--

106176	48	
--------	----	--

112454	50	
--------	----	--

AN3C41A		Purchased	No			110	Each	201.0000	1.0000			
												
BOLT												

Warehouse	Loc Qty	Loc Code
Location		

OFFSHORE

FG	4	
----	---	--

103324	4	
--------	---	--

Main Warehouse

Return 2009	16	
-------------	----	--

108409	16	
--------	----	--

Main Warehouse

ST	181	
----	-----	--

111925	81	
--------	----	--

112431	100	
--------	-----	--

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

August 21, 2009 11:17:50 AM

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation


Comments:

Start Date: 8/21/09

Required Date: 8/26/09

Start Qty: 1.00


Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN3C42A  BOLT		Purchased	No			110	Each	151.0000	1.0000 ✓			

PC 9/8/09

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	151	
106169	51	
106176	100	

M106169

AN3C43A  BOLT		Purchased	No			110	Each	109.0000	4.0000 ✓			
--	--	-----------	----	--	--	-----	------	----------	----------	--	--	--

PC 9/8/09 (1)

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
ST	109	
106227	2	
106228	35	
106299	2	
107457	70	

M106292 2x
M107457 2p

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

August 21, 2009 11:17:50 AM

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation


Comments:

Start Date: 8/21/09

Required Date: 8/26/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
AN3C46A  BOLT		Purchased	No			110	Each	124.0000	5.0000 ✓			

8/21/09

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST 124

106169 5

106176 19

111918 100

1106176

AN960C10L

Purchased

No

110

Each

3,252.000 26.0000 ✓

washer

8/21/09

Warehouse Loc Qty Loc Code
Location

OFFSHORE

FG 100

103585 100

Main Warehouse

ST 3152

112116 3152

1112116

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

August 21, 2009 11:17:50 AM

Work Order ID: 51413

Parent Item: D412-742-013RevD

Parent Item Name: Float Skidtube Installation

Comments:

Start Date: 8/21/09

Required Date: 8/26/09

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
MS21043-3 Nut		Purchased	No			110	Each	5,428.000	13.0000			

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
OFFSHORE		
FG	80	
103691	80	
Main Warehouse		
ST	5348	
111819	108	
112243	264	
112314	4976	

1112243

Pc 9/2/24 ①

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

32.16 D412-742-013 (APICAL TRI-BAG) FLOAT SKIDTUBE PARTS LIST

Item	Qty -013	Qty -043	Part Number	Description
	X		D412-742-013	FLOAT SKIDTUBE INSTALLATION
	1	X	D412-742-043	FLOAT SKIDTUBE
		1	D3391-043	412 FLOAT SKIDTUBE
1		*24	*AN3C4A	*BOLT
3		*12	*AN3C6A	*BOLT
4		*8	*AN3C7A	*BOLT
5		*44	*AN960C10L	*WASHER
21A		*1	*D3564-1	*WEARSHOE (REPLACES D3460-1)
21B		*1	*D3566-1	*GASKET
22A		*1	*D3564-3	*WEARSHOE (REPLACES D3460-3)
22B		*1	*D3566-1	*GASKET
23A		*1	*D3564-5	*WEARSHOE (REPLACES D2577-5)
23B		*1	*D3566-5	*GASKET
10		*1	*D3391-021	*412 FORWARD TUBE
11		**1	**D3401-041	**TOW CAP
12A		**10	**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB166)
12B		**2	**AELS-1032-130	**INSERT (REPLACES NAS1330S3KB166)
13		**10	**AN3C4A	**BOLT
14A		**4	**D3672-1	**WASHER (REPLACES NAS1515H3L)
14B		**10	**AN960C10L	**WASHER
24A		**1	**D3564-13	**WEARSHOE
24B		**1	**D3566-13	**GASKET
20		*1	*D3391-023	*412 MID TUBE
28		**20	**AELS-1032-130	**INSERT (REPLACES NAS1330S3KB116)
30		*1	*D3391-025	*412 AFT TUBE
25A		**1	**D3537-1	**WEARPAD
25B		**1	**D3553-1	**GASKET
26A		**1	**D3537-7	**WEARPAD
26B		**1	**D3553-3	**GASKET
31		**1	**D2646	**AFT CAP
32		**14	**AELS-1032-130	**INSERT
36		**12	**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB366)
37A		**6	**AN3C4A	**BOLT
37B		**4	**AN3C5A	**BOLT
38A		**2	**D3672-1	**WASHER (REPLACES NAS1515H3L)
38B		**10	**AN960C10L	**WASHER

(CONTINUED ON PAGE 59)

5/4/13

• COPYRIGHT © 2005 BY DART AEROSPACE USA, INC. •
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.

(CONTINUED FROM PAGE 57)

Item	Qty -013	Qty -043	Part Number	Description
40	1		D2571	SADDLE, FWD OUTSIDE
41	1		D2572	SADDLE, FWD INSIDE
42	1		D2573	SADDLE, AFT OUTSIDE
43	1		D2574	SADDLE, AFT INSIDE
44	2		D2876	SADDLE SPACER
45	2		D2877	SADDLE SPACER
46	16		D3403-1	BUSHING
47A	4		D2747	SET SCREW
47B	2		D3533-1	SET SCREW
48	16		AN4C6A	BOLT
49	8		AN4C52A	BOLT
50	8		AN6C12A	BOLT
51A	32		D3672-3	WASHER (REPLACES NAS1515H4L)
51B	32		AN960C416L	WASHER
52A	8		D3672-3	WASHER (REPLACES NAS1515H6L)
52B	8		AN960C616L	WASHER
53	16		D3672-11	WASHER (REPLACES NAS1515H7L)
54	24		MS21043-4	NUT
55	4		ANC47A	BOLT
60	8		D3403-3	BUSHING
61	1		D3405-041	GHW LUG
62	1		D3405-043	GHW LUG
63	4		AN4C46A	BOLT DSZ 9441
64	4		MS21043-4	NUT
70	1		D3407-041	TOW RING
71	2		D3417-3	WASHER
72	1		MS21043-4	NUT
73	1		D3456-1	WASHER
91	1		AN3C37A	BOLT
92	1		AN3C40A	BOLT
93	1		AN3C41A	BOLT
94	1		AN3C42A	BOLT
95	4		AN3C43A	BOLT
97	5		AN3C46A	BOLT
99	26		AN960C10L	WASHER
100	13		MS21043-3	NUT

*DENOTES PART IS INCLUDED WITH D3391-043 ASSEMBLY ABOVE

**DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

5413

• COPYRIGHT © 2005 BY DART AEROSPACE USA, INC. •
 THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED
 OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.

32-00-00

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-742 REV. D AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-742 REV. 3.

REF. FAA STC: SR01583SE

REF. CANADIAN STC: SH05-37

REF. EASA STC: EASA.IM.R.S.01126

INSTRUCTIONS:

- 1) FOR D412-742-011/-013 SKIDTUBES @ CHANGE 006 AND SUBSEQUENT, UPDATE THE PARTS LIST TO MODIFY THE BOLT USED TO ATTACH THE GHW LUG AS FOLLOWS:

5.1 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List

32.15 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List

ITEM	Qty -011	Qty -041	Qty -015	PART NUMBER	DESCRIPTION
	X			D412-742-011	FLOAT SKIDTUBE INSTALLATION
	1	X		D412-742-041	FLOAT SKIDTUBE
	1		X	D412-742-015	ELECTRIC STEP KIT

IS:

63	4			AN4C47A	BOLT
----	---	--	--	---------	------

WAS:

63	4			AN4C46A	BOLT
----	---	--	--	---------	------

5.2 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

32.16 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

ITEM	Qty -013	Qty 043	PART NUMBER	DESCRIPTION
	X		D412-742-013	FLOAT SKIDTUBE INSTALLATION
	1	X	D412-742-043	FLOAT SKIDTUBE

IS:

63	4		AN4C47A	BOLT
----	---	--	---------	------

WAS:

63	4		AN4C46A	BOLT
----	---	--	---------	------

5/11/19

A	NEW ISSUE	AJS	08.12.19
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE USA, INC PORT HADLOCK, WA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9441	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		BOLT CHANGE	NTS
DATE	08.12.19	COPYRIGHT © 2008 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	